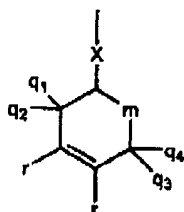


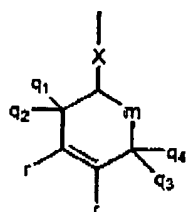
6. (Amended) The composition of claim 1, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:



wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

- a<sup>4</sup>
28. (Amended) A packaging article, comprising:  
at least one active oxygen barrier layer comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group.

32. (Amended) The packaging article of claim 28, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:



wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

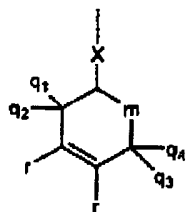
- a<sup>6</sup>
72. (Amended) A method of making an active oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, comprising:  
providing the oxygen barrier polymer and the oxygen scavenging polymer; and

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blending the oxygen barrier polymer and the oxygen scavenging polymer to form the oxygen barrier composition,

wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group.

75. (Amended) The method of claim 72, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:



(I)

wherein q<sub>1</sub>, q<sub>2</sub>, q<sub>3</sub>, q<sub>4</sub>, and r are independently selected from hydrogen, methyl, or ethyl; m is -(CH<sub>2</sub>)<sub>n</sub>-, wherein n is an integer from 0 to 4, inclusive; X is null or a linking group; and, when r is hydrogen, at least one of q<sub>1</sub>, q<sub>2</sub>, q<sub>3</sub>, and q<sub>4</sub> is also hydrogen.

89. (Amended) A method of making an active oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer is present as an insoluble filler, comprising:

providing the oxygen barrier polymer and the oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group;

cross-linking the oxygen scavenging polymer with itself, to form an insoluble oxygen scavenging polymer; and

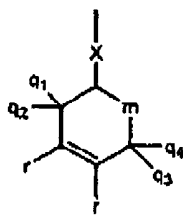
mixing the oxygen barrier polymer and the insoluble oxygen scavenging polymer, to form the oxygen barrier composition.

90. (Amended) A method of forming an active oxygen barrier layer in a packaging article, comprising:

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providing an oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group; and forming the composition into the packaging article or an active oxygen barrier layer thereof.

93. (Amended) The method of claim 90, wherein the cyclic olefinic pendant group is a cycloalkenyl group having the structure I:



(I)

wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

## REMARKS

### 1. Status of claims

Upon entry of the above amendments, claims 1-4, 6-30, 32-73, 75-91, and 93-115 are pending, and claims 1-4, 6-11, 15, 17-30, 32-37, 41, 43-66, 70-73, 75-80, 84, 86-91, 93-98, 102-113, and 115 are under consideration.

### 2. Support for amendments

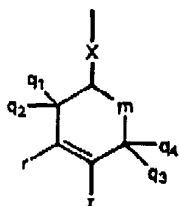
The above amendment of the abstract presents the same text in a form requested by the Examiner. No new matter has been added. A copy of the amended abstract, with insertions and deletions indicated by underlining and brackets, respectively, is attached hereto as Appendix A.

## APPENDIX B

## Amendments to claims

1. (Amended) An active oxygen barrier composition, comprising:  
 an oxygen barrier polymer, an oxygen scavenging polymer, and an oxidation catalyst,  
wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group.

6. (Amended) The composition of claim [5] 1, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:

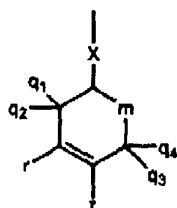


(I)

wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  
 $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and,  
 when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

28. (Amended) A packaging article, comprising:  
 at least one active oxygen barrier layer comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group.

32. (Amended) The packaging article of claim [31] 28, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:



(I)

wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

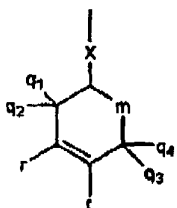
72. (Amended) A method of making an active oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, comprising:

providing the oxygen barrier polymer and the oxygen scavenging polymer; and

blending the oxygen barrier polymer and the oxygen scavenging polymer to form the oxygen barrier composition,

wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group.

75. (Amended) The method of claim [74] 72, wherein the cyclic olefinic pendant group is a cycloalkenyl group having structure I:



(I)

wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.

89. (Amended) A method of making an active oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer is present as an insoluble filler, comprising:

providing the oxygen barrier polymer and the oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group;

cross-linking the oxygen scavenging polymer with itself, to form an insoluble oxygen scavenging polymer; and

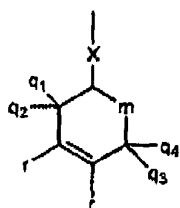
mixing the oxygen barrier polymer and the insoluble oxygen scavenging polymer, to form the oxygen barrier composition.

90. (Amended) A method of forming an active oxygen barrier layer in a packaging article, comprising:

providing an oxygen barrier composition comprising an oxygen barrier polymer and an oxygen scavenging polymer, wherein the oxygen scavenging polymer comprises an ethylenic backbone and at least one cyclic olefinic pendant group; and

forming the composition into the packaging article or an active oxygen barrier layer thereof.

93. (Amended) The method of claim [92] 90, wherein the cyclic olefinic pendant group is a cycloalkenyl group having the structure I:



(I)

wherein  $q_1$ ,  $q_2$ ,  $q_3$ ,  $q_4$ , and  $r$  are independently selected from hydrogen, methyl, or ethyl;  $m$  is  $-(CH_2)_n-$ , wherein  $n$  is an integer from 0 to 4, inclusive;  $X$  is null or a linking group; and, when  $r$  is hydrogen, at least one of  $q_1$ ,  $q_2$ ,  $q_3$ , and  $q_4$  is also hydrogen.